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## DORLAND'S ILLUSTRATED

# Medical Dictionary

Twenty-sixth Edition

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MARC-S

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yellowish white crystals or powder, usually used in combination with other sulfonamides. See trisulfapyrimidines oral suspension, under suspension. Called also sulfamethyldiazine.

sulfameter (sul'fah-me"ter) chemical name: 4-amino-N-(5-methoxy-2-pyrimidinyl)benzenesulfonamide. A long-acting sulfonamide, C<sub>11</sub>H<sub>12</sub>N<sub>4</sub>O<sub>5</sub>S, occurring as a fine, white to yellowish-white, powder; used as an antibacterial, especially in the treatment of acute and chronic urinary tract infections, administered orally.

sulfamethazine (sul"fah-meth'ah-zēn) [USP] chemical name: 4-amino-N(4,6-dimethyl-2-pyrimidinyl)benzenesulfonamide. A sulfonamide, C<sub>12</sub>H<sub>14</sub>N<sub>1</sub>O<sub>2</sub>S, occurring as a white to yellowish white powder; used as an antibacterial in a variety of infections, usually, in the United States, in combination with other sulfon-amides. It is administered orally. Called also sulfadimidine.

sulfamethizole (sul"fah-meth'I-zol) [USP] chemical name: N (5-methyl-1,3,4-thiadiazol-2-yl)sulfanilamide. A compound, Co- $H_{10}N_4O_2S_2$ , occurring as white crystals or powder, used as an antibacterial agent mainly in the treatment of infections of the urinary tract. Called also sulfamethylthiadiazole.

sulfamethoxazole (sul"fah-meth-oks'ah-zōl) [USP] namethoxazole (sul"fah-meth-oks'ah-zōl) [USF] chemical name: 4-amino-N(5-methyl-3-isoxazolyl)benzenesulfonamide. A sulfonamide,  $C_{10}H_{11}N_2O_3S$ , occurring as a white to off-white, crystalline powder; used as an antibacterial, especially for the prophylaxis and treatment of acute urinary tract infections and of pyodermata and infections of wounds and soft tissues, administered orally.

sulfamethoxypyridazine (sul"fah-meth-ok'se-pi-rid'ah-zen) chemical name:  $N^1$ -(6-methoxy-3-pyridazinyl)sulfanilamide. A compound,  $C_1H_{10}N_4O_3S$ , occurring as a white or yellowish white, crystalline powder, used as an antibacterial agent in the treatment of infections of the urinary tract and other infections.

sulfamethyldiazine (sul"fah-meth"il-di'ah-zēn)

sulfamethylthiadiazole (sul"fah-meth"il-thi"ah-di'ah-zōl) sulfamethizole.

Sulfamezathine (sul"fah-mez'ah-thēn) trademark for a preparation of sulfamethazine.

sulfamido (sul-fam'i-do) one of a group of compounds containing an aminosulfone group SO2 · NH2.

sulfamine (sul-fam'in) the univalent radical, -SO2NH2.

sulfamonomethoxine (sul"fah-mon"o-mě-thoks'ēn) chemical name:  $N^{2}$ -(6-methoxy-4-pyrimidinyl)sulfanilamide; an antibacterial,  $C_{11}H_{12}N_{4}O_{3}S$ .

sulfamoxole (sul"fah-moks'ōl) chemical name: N1-(4,5-dimethyl-2-oxazolyl)sulfanilamide; an antibacterial, C<sub>11</sub>H<sub>13</sub>N<sub>3</sub>O<sub>3</sub>S.

trademark for preparations of Sulfamylon (sul"fah-mi'lon)

lfanilamide (sul"fah-nil'ah-mīd) chemical name: pamino-benzenesulfonamide. A potent antibacterial compound, NH<sub>2</sub>·C<sub>6</sub>· H<sub>4</sub>·SO<sub>2</sub>NH<sub>2</sub>, the first of the sulfonamides discovered. Formerly sulfanilamide (sul"fah-nil'ah-mīd) used in the treatment of various infections, it has been replaced by more effective and less toxic derivatives, and by antibiotics. Called also prontosil album.

sulfanilate (sulf-an'ĭ-lāt) a salt of sulfanilic acid...

sulfanitran (sul"fah-ni'tran) chemical name: 4'-[(p-nitrophe-nyl)sulfamoyl]acetanilide. A substance, C<sub>14</sub>H<sub>13</sub>N<sub>3</sub>O<sub>3</sub>S, used as an antibacterial and as a coccidiostatic agent in poultry.

sulfanuria (sulf"ah-nu're-ah) anuria resulting from the use of sulfonamide drugs.

sulfapyridine (sul"fah-pir"i-den) [USP] chemical name: N1-2pyridylsulfanilamide. An antibacterial compound, C,1H,1N2O2S, occurring as white or faintly yellowish white granules, crystals, or powder; used as an oral suppressant for dermatitis herpetiformis. It was formerly used in the treatment of pneumonia and streptococcal infections.

sulfaquinoxaline (sul"fah-kwin-ok'sah-lēn) Nº-(2-quinoxalinyl)sulfanilamide. An antibacterial, C14H12N4O2S, used in veterinary medicine as a coccidiostat, and in the treatment of fowl cholera, fowl typhoid, infectious enteritis of swine, shipping dysentery of lambs, and foot rot of cattle.

sulfarsphenamine (sulf"ar-sfen'ah-min) the disodium salt of dihydroxy-diaminoarsenobenzenemonomethylene sulfonate,  $NH_2(OH)C_0H_3 \cdot As:AsC_0H_3(OH)NH \cdot CH_2 \cdot SO_2 \cdot ONa.$ It contains 18-20 per cent of arsenic and was formerly used in the treatment of syphilis. It differs from neoarsphenamine in having two side chains instead of one and in that the sulfur has a valence of four instead of two.

sulfasalazine (sul"fah-sal'ah-zēn) [USP] chemical name: 2-hydroxy-5-[[4-[(2-pyridinylamino)sulfonyl]phenyl]azo]benzoic acid. An antibacterial sulfonamide derivative, C<sub>16</sub>H<sub>14</sub>N<sub>4</sub>O<sub>5</sub>S, occurring as a bright yellow to brownish yellow powder; used orally in the treatment of mild to moderate ulcerative colitis and as adjunctive therapy in severe ulcerative colitis due to susceptible organisms, administered orally. Called also salazosulfapyridine and salicylazosulfapyridine.

Sulfasuxidine (sul"fah-suk'sī-dēn) trademark for preparations of succinylsulfathiazole.

sulfatase (sul'fah-tās) an enzyme that catalyzes the hydrolysis of various sulfuric acid esters into sulfuric acid and alchohol.

sulfate (sul'fat) [L. sulphas] any salt of sulfuric acid. acid s., one in which only one half of the hydrogen of the sulfuric acid is replaced; a bisulfate. basic s., one in which the normal sulfate of the base is combined with a hydroxide of the same base; a subsulfate. chondroitin s., see chrondroitin. conjugated s's, aromatic substances, such as phenol, scatoxyl, and indoxyl, which occur in the urine along with mineral sulfates. cupric s. [USP], the pentahydrate sulfate salt of copper, CuSO<sub>4</sub>.5H<sub>2</sub>O, occurring as deep blue, triclinic crystals or as blue crystalline granules or powder, which is a powerful emetic; used orally as an antidote to phosphorus poisoning. Topical application of a 1 per cent solution is used in the treatment of phosphorus burns of the skin It is also used as a catalyst with iron in the treatment of iron one in which only one half of the hydrogen of the sulfuric acid is skin. It is also used as a catalyst with iron in the treatment of iron deficiency anemia. In 1:1,000,000 concentration it is used to prevent growth of algae in ponds, reservoirs, and swimming pools. prevent growth of algae in ponds, reservoirs, and swimming pools Called also blue vetriol, copper sulfate, and bluestone. dermatan s., chondroitin sulfate B; see chondroitin. ethereal s's, conjugated s's. ferrous s. [USP], pale bluish green odorless crystals or granules, FeSO<sub>4</sub>. TH<sub>2</sub>O, used orally in treatment of iron deficiency anemia. Called also copperas, green vitriol, iron protosulfate, and iron sulfate. ferrous s. dried [USP], a grayish white powder, FeSO<sub>4</sub>. H<sub>2</sub>O, used as a hematinic. mineral s's, sulfates in the urine which are combinations of sulfuric acid with mineral substances such as sodium, potassium, calcium, and mineral substances such as sodium, potassium, calcium, and magnesium. neutral s., normal s., one in which all the hydrogen of the sulfuric acid is replaced. preformed s's, mineral s's.

sulfatemia (sul"fat-e'me-ah) the presence of sulfates in the blood.

Sulfathalidine (sul"fah-thal'ī-dēn) trademark for phthalylsulfathiazole.

sulfathiazole (sul"fah-thi'ah-zōl) chemical name: N¹.2-thiazolylsulfanilamide. A compound, C₀H₀N₃O₃S₂, once widely used as an antibacterial agent but replaced by less toxic sulfonamides and antibiotics. Called also M & B 760, norsulfazole.

sulfatide (sul'fah-tid) one of a class of cerebroside sulfuric esters; they are found largely in the medullated nerve fibers, and may accumulate in the white matter of the brain in metachro-

matic leukodystrophy.
sulfazamet (sul-fah'zah-met) chemical name: N'-(3-methyl-1 phenylpyrazol-5-yl)sulfanilamide; an antibacterial, C10H10N4O2S. sulfhemoglobin (sulf"he-mo-glo'bin) sulfmethemoglobin.

sulfhemoglobinemia (sulf"he-mo-glo"bin-e'me-ah) ence of sulfmethemoglobin in the blood.

sulfhydrate (sulf-hi'drāt) any compound of a base with sulfhydric acid or, more correctly, with the radical sulfhydryl, SH, or hydrogen sulfide.

sulfhydryl (sulf-hi'dril) the univalent radical, —SH.

sulfide (sul'fid) any binary compound of sulfur; a compound of sulfur with another element or radical or base. mercuric s., a brilliant scarlet powder, HgS, formerly used in the treatment of syphilis.

sulfindigotate (sul-fin'di-go-tāt) any salt of sulfindigotic acid. sulfinpyrazone (sul'fin-pi'rah-zōn) [USP] chemical name: 1,2-diphenyl - 4 - [2 - (phenylsulfinylethyl ] 3,5-pyrazolidinedione. A sulfoxide analogue of phenybutazone, C<sub>2.9</sub>H<sub>2.0</sub>N<sub>2</sub>O<sub>3</sub>S, used as a uricosuric agent in treatment of gout.

sulfinyl (sul'ff-nil) the bivalent radical, -SO-

sulfisomidine (sul-fi-som'i-den) chemical name: N1-(2, 6 - dimethyl - 4 - pyrimidinyl) sulfanilamide. A compound,  $C_{12}H_{14}N_4$ .  $O_2S$ , closely related to sulfamethazine, occurring as a white or creamy-white powder, used as an antibacterial agent in the treatment of systemic and urinary tract infections. Called also sulfadimetine.

sulfisoxazole (sul"fi-sok'sah-zōl) [USP] chemical name: 4-aminsoxazole (sul"il-sok'san-zol) [USP] chemical name: 4-amino-N(3,4-dimethyl-5-isoxazolyl)benzenesulfonamide. A short-acting sulfonamide, C<sub>11</sub>H<sub>13</sub>N<sub>3</sub>O<sub>3</sub>S, occurring as a white to slightly yellowish, crystalline powder; used as an antibacterial in the treatment of a wide variety of infections, administered orally. Called also sulfafurazole, acetyl s. [USP], a tasteless derivative of sulfisoxazole, having the same actions as the base. s. diethanolamine, s. diolamine [USP], a soluble salt of sulfisoxazole administered parenterelly. soxazole, administered parenterally.

sulfite (sul'fit) [L. sulfis] any salt of sulfurous acid. s. oxidase, an oxidoreductase that catalyzes the oxidation of sulfite (with O<sub>2</sub>) to sulfate with release of H<sub>2</sub>O<sub>2</sub>; it is a hemoprotein containing molybdenum, occurring in the intermembrane space of mitochondria.

a greenish subsulfmethemoglobin (sulf"met-he"mo-glo'bin) stance formed by treating blood with hydrogen sulfide or by the absorption of this gas from the intestinal tract; it is the cause of the greenish color seen in the abdominal walls and along the vessels of cadavers. Called also sulfhemoglobin.

sulfo- a prefix used in naming chemical compounds, indicating the presence of divalent sulfur or of the group SO2OH.

sulfoacid (sul"fo-as'id) sulfonic acid.



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C11	ILFATASE	Arvi-sulfate			Continuation of) ULFATASE	
,	(Aryl-sulfatase; Phenolsulfatase; Aryl-sulfate sulfohydrolase; EC 3.1.6.1)  Sulfatase Unit Definition: One unit will hydrolyze 1.0 µmole of p-nitrocatechol sulfate per hr at pH 5.0 at 37°C (30 min assay), unless otherwise indicated below.  B-Glucuronidase Unit Definition: One Sigma or modified "Fishman" unit will liberate 1.0 µg of phenolphthalein from phenolphthalein glucuronic acid per hr at pH 3.8 at 37°C (30 min assay), unless indicated below.			Type H-5: From Helix 5,000 units 14.55 pomatia 10,000 units 24.80 Lyophilized powder 100,000 units 173.95 A further purification of S 9751 by gel filtration chromatography. Sulfatase Activity: 15-40 units per mg solid.  B-Glucuronidase Activity: 400-600 units per mg solid.  See also: Limpet Acetone Powder Page 625		
	[9016-17-5]			S	SULFATHIAZOLE (4-Amino-N-2-thiazolylbenzenesu	ilfonamide)
\$ 8504 ©	Activity: 10-25 units per mg	100 units 12	.25	9876 RT	Free Acid (pfs) Crystalline [72-14-0] C <sub>9</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> S <sub>2</sub> FW 255.3	100 g 11.15 250 g 21.35 500 g 34.55 1 kg 56.45 FOB Sigma
	solid.  \$\beta\$-Glucuronidase Activity: 1,000 per mg solid.  Type V: From Limpets	<u> </u>	sits <b>s</b>	6 0127 RT	Sodium Salt (pfs) Crystalline [144-74-1] C <sub>9</sub> H <sub>8</sub> N <sub>3</sub> O <sub>2</sub> S <sub>2</sub> Na FW 277.3	100 g 12.40 250 g 23.30 500 g 38.10 1 kg 63.25
\$ 8629 ©© \$ 1629 ©©	(Patella vulgata) Lyophilized, essentially salt-	250 units 30 500 units 49 1,000 units 89 5,000 units 348	0.50 0.80 0.05 3.60	\$ 1006 	SULFATIDES (Cerebroside sulfate) From Bovine Brain Also available as part of a kit. See: Standards and Controls Section Page 1912	5 mg 26.55 10 mg 43.40 25 mg 86.05 50 mg 154.25 100 mg 277.50
	Type VI: From Aerobacter 10 units 23.30 aerogenes 50 units 102.10 Partially purified 50% glycerol solution (10-20 units per ml)			See also: Tissue Culture Media a Page 1513 SULFHYDRYL CELLULOSE See under: Affinity Chromatograp Page 1731		
	containing 0.01 M Tris, pH 7.5 Activity: 2-5 units per mg prote No detectable β-glucuronidase Unit Definition: One unit will h of p-nitrophenyl sulfate per mi	ein (Biuret). e activity at pH 7. vdrolyze 1.0 µm(	ן שונ	S 9509	(±)-SULFINPYRAZONE (pfs)	1g 7.75 5g 19.40 10g 29.30 25g 51.90
\$ 9629 .eec		100 units 1 500 units 4	1.40 0.40 8.05	S 8259	2,2'-SULFINYL-bis(4,6-DICHLORG PHENOL) (pfs) (Bithionol sulfoxide) [844-26-8] C <sub>12</sub> H <sub>6</sub> O <sub>3</sub> Cl <sub>4</sub> S FW 372	250 g 50.00 1 kg 136.40
	mg solid. β-Glucuronidase Activity: 400 mg solid.	-800 Sigma units	per	S 7505	4-pyrimidinyl]benzenesulfonan Crystalline	
\$ 9754 	D Entrails Lyophilized powder Activity: 20-40 units per mg solid.  \$\beta\$-\$curronidase Activity: <3	500 units 5 1,000 units 5 5,000 units 4 0 Sigma units pe	er mg	S 6377		25 g 5.15 100 g 11.55 ide; sulfanilamide)
₹ 962 	6 Type H-1: From Helix 5 pomatia (pfs) Partially purified powder Activity: 15-40 units per mg solid. β-Glucuronidase Activity: Apr mg solid at pH 5.0.		16.55 90.35 per	0.3	SULFITE OXIDASE  6 (Sulfite: oxygen oxidoreductase; EC 1.8.3.1) From Chicken Liver Suspension in 3.2 M ammonic 1.6 mM molybdic acid, pH 7.5 Activity: 20-70 units per mg p	50 units 19.75 250 units 75.35  Im sulfate containing i. rotein (Biuret). oxidize 1.0 µmole of
\$ 97: 62:	ol Type H-2: From Helix pomati	2 mi er ml 5 mi 10 ml	23.30 51.65 92.25		sulfite to sulfate during the re cytochrome c per min at pH 8 [9029-38-3]	duction of 1.5 at 25°C.
	100,000 Sigma units per ml pH 5.0.	at	nued)		β-NAPHTHOL-3,6-DISULFON SALT See: Ponceau S Page 854	IC ACID SOULOM